## IN THE CLAIMS

Please amend the claims as follows:

1. (Currently Amended) An input apparatus for performing an input operation as a pressing operation or a touching operation on a front surface of a panel, comprising:

input detection means for detecting <u>an input operation and confirming</u> whether the <u>input operation is a pressing operation or [[the]] a touching operation [[is]] being performed on the front surface of the panel;</u>

waveform generation means for generating a first signal waveform having a first amplitude after the pressing operation or the touching operation is performed when the input detection means detects that the pressing operation or the touching input operation is being performed, and generating a second signal waveform having a larger a second amplitude which is larger than the first amplitude after the input detection means confirms the input operation is a pressing operation or the touching operation is confirmed than the signal waveform generated after the pressing operation or the touching operation is performed; and panel deforming means for deforming the panel corresponding to the signal waveform waveforms generated by the waveform generation means.

- 2. (Currently Amended) The input apparatus as set forth in claim 1, wherein the <u>first</u> signal waveform generated by the waveform generation means after the pressing operation or the touching operation is performed has a smaller amplitude and <u>has</u> a higher frequency than the <u>second</u> signal waveform generated by the waveform generation means after the pressing operation or the touching operation is confirmed.
  - 3. (Currently Amended) The input apparatus as set forth in claim 1,

when the pressing operation or the touching changes as the input operation is being performed on the front surface of the panel and uses the signal from the input operation to determine confirm whether the pressing operation or the touching operation is being preformed performed on the front surface of the panel, and

wherein the waveform generation means generates [[a]] the first signal waveform after the pressing operation or the touching operation is performed and the signal from the input operation is detected by the input detection means and starts changing, and generates [[a]] the second signal waveform having a larger amplitude after the signal from the input operation becomes stable so as to confirm the pressing operation and the pressing operation or the touching operation is confirmed than the signal waveform generated after the pressing operation or the touching operation is performed.

- 4. (Currently Amended) The input apparatus as set forth in claim 1, wherein the waveform generation means varies [[a]] the first signal waveform after the pressing operation or the touching input operation is performed until the pressing operation or the touching operation is confirmed.
- 5. (Currently Amended) The input apparatus as set forth in claim 1, wherein when the input detection means detects that the pressing operation or the touching input operation is being preformed performed and the pressing operation or the touching operation is not accepted as the input operation on a portion of the front surface of the panel where a pressing operation will not be recognized by the input detection means, the waveform generation means generates [[a]] only the first signal waveform only after the

pressing operation or the touching input operation is performed started until the pressing operation or the touching operation is confirmed.

6. (Currently Amended) An information process apparatus having an input apparatus for performing an input operation as a pressing operation or a touching operation on a front surface of a panel, comprising:

input detection means for detecting <u>an input operation and confirming</u> whether the <u>input operation is a pressing operation or [[the]] a touching operation [[is]] being performed on the front surface of the panel;</u>

waveform generation means for generating a first signal waveform having a first

amplitude after the pressing operation or the touching operation is performed when the input
detection means detects that the pressing operation or the touching input operation is being
performed, and generating a second signal waveform having a larger a second amplitude
which is larger than the first amplitude after the input detection means confirms the input
operation is a pressing operation or the touching operation is confirmed than the signal
waveform generated after the pressing operation or the touching operation is performed; and
panel deforming means for deforming the panel corresponding to the signal waveform
waveforms generated by the waveform generation means.

7. (Currently Amended) A remote control apparatus having an input apparatus for performing an input operation as a pressing operation or a touching operation on a front surface of a panel, comprising:

input detection means for detecting <u>an input operation and confirming</u> whether the <u>input operation is a pressing operation or [[the]] a touching operation [[is]] being performed on the front surface of the panel;</u>

waveform generation means for generating a <u>first</u> signal waveform <u>having a first</u>

amplitude after the pressing operation or the touching operation is performed when the input detection means detects that the <u>pressing operation or the touching input operation</u> is being performed, and generating a <u>second</u> signal waveform having <u>a larger a second</u> amplitude which is larger than the first amplitude after the <u>input detection means confirms the input operation is a pressing operation or the touching operation is confirmed than the signal waveform generated after the pressing operation or the touching operation is performed; and panel deforming means for deforming the panel corresponding to the signal waveform waveforms generated by the waveform generation means.</u>

8. (Currently Amended) A control method of an input apparatus for performing an input operation as a pressing operation or a touching operation on a front surface of a panel, the method comprising the steps of:

detecting an input operation and confirming whether the input operation is a pressing operation or a touching operation being performed on the front surface of the panel;

generating a <u>first</u> signal waveform <u>having a first amplitude</u> after the pressing operation or the touching operation is performed when it is detected that the pressing operation or the touching <u>input</u> operation is being performed;

generating a <u>second</u> signal waveform having a <u>second amplitude which is</u> larger <u>than</u>

<u>the first</u> amplitude after the pressing operation or the touching operation is confirmed than the signal waveform generated after the pressing operation or the touching operation is <u>performed</u>; and

deforming the panel corresponding to <u>one of</u> the generated signal <del>waveform</del> waveforms.

9. (Currently Amended) An input apparatus for performing an input operation as a pressing operation or a touching operation on a front surface of a panel, comprising:

input detection means for detecting <u>an input operation and confirming</u> whether the <u>input operation is a pressing operation or [[the]] a touching operation [[is]] being performed on the front surface of the panel;</u>

time period measurement means for measuring a time period after from when the pressing operation or the touching operation is performed input operation is detected until the pressing operation or the touching operation is confirmed when the input detection means detects that the pressing operation or the touching operation is being performed on the front surface of the panel;

waveform generation means for generating a signal waveform corresponding to based on a length of the time period measured by the time period measurement means; and panel deforming means for deforming the panel corresponding to the signal waveform generated by the waveform generation means.

- 10. (Currently Amended) The input apparatus as set forth in claim 9, wherein the signal waveform generated by the waveform generation means generates a signal waveform having has an amplitude reversely proportional to the time period measured by the time period measurement means.
- 11. (Currently Amended) The input apparatus as set forth in claim 9, wherein the signal waveform generated by the waveform generation means generates a signal waveform having a larger amplitude when the time period measured by the time period measurement means is shorter than a predetermined time period has an amplitude which is larger than an amplitude of [[a]] the signal waveform generated by the waveform

generation means when the time period measured by the time period measurement means is longer than the predetermined time period.

12. (Currently Amended) The input apparatus as set forth in claim 9,

when the pressing operation or the touching as the input operation is being performed on the front surface of the panel and uses the signal from the input operation to determine confirm whether the pressing operation or the touching operation is being performed on the front surface of the panel, and

wherein the time period measurement means confirms the pressing operation or the touching operation is being performed when the signal that varies after the pressing operation or the touching operation while the input operation is performed becomes stable and measures a time period after the pressing operation or the touching operation is performed until the pressing operation or the touching operation is confirmed.

13. (Currently Amended) An information process apparatus having an input apparatus for performing an input operation as a pressing operation or a touching operation on a front surface of a panel, comprising:

input detection means for detecting <u>an input operation and confirming</u> whether the <u>input operation is a pressing operation or [[the]] a touching operation [[is]] being performed on the front surface of the panel;</u>

time period measurement means for measuring a time period after from when the pressing operation or the touching operation is performed input operation is detected until the pressing operation or the touching operation is confirmed when the input detection means

detects that the pressing operation or the touching operation is being performed on the front surface of the panel;

waveform generation means for generating a signal waveform corresponding to based on a length of the time period measured by the time period measurement means; and

panel deforming means for deforming the panel corresponding to the signal waveform generated by the waveform generation means.

14. (Currently Amended) A remote control apparatus having an input apparatus for performing an input operation as a pressing operation or a touching operation on a front surface of a panel, comprising:

input detection means for detecting <u>an input operation and confirming</u> whether the <u>input operation is a pressing operation or [[the]] a touching operation [[is]] being performed on the front surface of the panel;</u>

time period measurement means for measuring a time period after from when the pressing operation or the touching operation is performed input operation is detected until the pressing operation or the touching operation is confirmed when the input detection means detects that the pressing operation or the touching operation is being performed on the front surface of the panel;

waveform generation means for generating a signal waveform corresponding to based on a length of the time period measured by the time period measurement means; and

panel deforming means for deforming the panel corresponding to the signal waveform generated by the waveform generation means.

15. (Currently Amended) A control method of an input apparatus for performing an input operation as a pressing operation or a touching operation on a front surface of a panel, the method comprising the steps of:

detecting an input operation and confirming whether the input operation is a pressing operation or a touching operation being performed on the front surface of the panel;

measuring a time period after from when the pressing operation or the touching operation is performed input operation is detected until the pressing operation or the touching operation is confirmed when it is detected that the pressing operation or the touching operation is being performed on the front surface of the panel;

generating a signal waveform with a waveform generating unit corresponding to based on a length of the measured time period; and

deforming the panel corresponding to the signal waveform generated by the waveform generation means unit.

- 16. (New) The input apparatus as set forth in claim 3, wherein the waveform generation means generates the second signal waveform after the signal from the input operation becomes stable and maintains stability for a predetermined period of time.
- 17. (New) The input apparatus as set forth in claim 3, wherein the signal from the input operation changes based on a change in a coordinate location of the input operation on the front surface of the panel and the signal from the input operation is stable if the coordinate location of the input operation on the front surface of the panel does not change.
  - 18. (New) The input apparatus as set forth in claim 9, wherein

the waveform generation means generates another signal waveform while the time period measurement means measures the time period, and

the panel deforming means deforms the panel corresponding to the another signal waveform until the time period has been measured, and then deforms the panel corresponding to the signal waveform based on the length of the measured time period after the time period has been measured.

- 19. (New) The input apparatus as set forth in claim 12, wherein the time period measurement means confirms the pressing operation is being performed when the signal that varies while the input operation is performed becomes stable and maintains stability for a predetermined period of time.
- 20. (New) The input apparatus as set forth in claim 12, wherein the signal from the input operation varies based on a change in a coordinate location of the input operation on the front surface of the panel and the signal from the input operation is stable if the coordinate location of the input operation on the front surface of the panel does not change.

11